	Application No.	Applicant(s)		
09/695,457	09/695,457	KHAN ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Lun-See Lao	2615		
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS. This application is	in this application. If not included nunication will be mailed in due cou	rse. THIS	
1. This communication is responsive to <u>04-05-207</u> .				
2. ⊠ The allowed claim(s) is/are <u>62 and 65-83</u> .		•		
 Acknowledgment is made of a claim for foreign priority una)	e been received. e been received in Applicat cuments have been receive of this communication to fi	ion No ed in this national stage application		
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submined in the submined particular application (PTO-152) which give			ICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	•		
(a) including changes required by the Notice of Draftspers		ew (PTO-948) attached		
1) 🗌 hereto or 2) 🗍 to Paper No./Mail Date	,			
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment o	or in the Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on he header according to 37 C	the drawings in the front (not the bac FR 1.121(d).	k) of	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	SIT OF BIOLOGICAL MAT FOR THE DEPOSIT OF B	FERIAL must be submitted. Note IOLOGICAL MATERIAL.	the ,	
·				
Attachment(s)	·	of control Data at Au C. C.		
1. Notice of References Cited (PTO-892)		nformal Patent Application		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No	Summary (PTO-413), ./Mail Date		
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 		s Amendment/Comment		
Examiner's Comment Regarding Requirement for Deposit of Biological Material		8. Examiner's Statement of Reasons for Allowance		
-	9.	·		

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DETAILED ACTION

1. This action responds to the amendment filed on 04-05-2007. Claims 1-61 and 63-64 have been canceled and claims 65-83 have been added. Claims 62 and 65-83 are pending.

Examiner's Amendment

- 2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 3. Authorization for this examiner's amendment was given in a telephone interview with Mr. Jonathan Berschadsky on May 22, 2007 to clarify the claim as to matters of form.
- 4. The application has been amended as follows:

Please replace claims 62, 66, 68,72,74-76, 78-80 and 82 as following:

Claim 62 (currently amended) An apparatus for fingerprinting an audio waveform, comprising:

a memory that operable to stores a codebook which represents a comprising one or more multivariate vectors, each multivariate vector comprising [[of]] one or more spectral features and represents [[with]] a corresponding one of a plurality of codes; and

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a processor operable configured to divide the audio waveform into a plurality of bins, compute one or more spectral features for each bin, and generate a fingerprint representing the audio waveform with a string of codes from the codebook based on the computed one or more spectral features for each bin.

Claim 66 (currently amended) The apparatus of claim 62 wherein the processor is further operable to compresses the string of codes to form a compressed string of codes.

Claim 68 (currently amended) The apparatus of claim 62, wherein the processor is further operable to compresses the string of codes such that temporal alignment between the string of codes and the audio waveform is maintained.

Claim 72 (currently amended) The apparatus of claim 62, wherein the processor is further operable to computes the one or more spectral features for a first group of data points within each bin, shifts one or more data points within each bin, and computes the one or more spectral features for a second group of data points within each bin.

Claim 74 (Presently Amended) The apparatus of claim 62, wherein the processor is further to operable to generates the fingerprint at a given time within the audio waveform.

Claim 75(currently amended) The apparatus of claim 62, wherein the processor is further operable to query queries a database of audio files using the fingerprint.

Claim 76 (currently amended) The apparatus of claim 62, wherein the processor is further operable to query queries a database of pre-computed audio signatures.

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Claim 78 (currently amended) The apparatus of claim 72, wherein the processor is further operable to receives at least one attribute associated with the fingerprint.

Claim 79 (currently amended) The apparatus of claim 72, wherein the processor is further operable to receives at least one attribute, wherein the at least one attribute is tagged to an audio file.

Claim 80 (currently amended) The apparatus of claim 72, wherein the processor is further operable to receives a customized playlist based on the fingerprint.

Claim 82 (currently amended) The apparatus of claim 72, wherein the processor is further operable to receives at least one feature value based on the fingerprint.

Allowable Subject Matter

5. Claims 62 and 65-83 are allowed.

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 7. Any response to this action should be mailed to:

Mail Stop _____(explanation, e.g., Amendment or After-final, etc.)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Facsimile responses should be faxed to:
(571) 273-8300

Hand-delivered responses should be brought to:

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Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lao, Lun-See whose telephone number is (571) 272-7501. The examiner can normally be reached on Monday-Friday from 8:00 to 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chin Vivian, can be reached on (571) 272-7848.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 whose telephone number is (571) 272-2600.

Lao, Lun-See 1:5.
Patent Examiner
US Patent and Trademark Office
Knox
571-272-7501
Date 05-22-2007

VIVIAN CHIN

TECHNOLOGY CENTER 2800